

## **SEQUENCING SYSTEM AND METHOD OF USE**

### **ABSTRACT OF THE DISCLOSURE**

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A system and method that sequences product to increase machine throughput. A plurality of input feeding devices each randomly receives products from a stream of product. A plurality of output groups corresponding to the plurality of input feeding devices are provided during a first pass phase and a second pass phase. The plurality of input feeding devices feed the product to output bins of the plurality of output groups. A control has a first mode of operation and a second mode of operation for a first pass phase and a second pass phase, respectively. In the first mode, the control allows all input feeding devices of the plurality of input feeding devices complete access to all output groups of the plurality of output groups during the first pass phase. In the second mode, the control constrains placement of the products to output groups assigned in the first pass phase such that the groupings of the products to the assigned output groups remain constant between the first pass phase and the second pass phase.

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